

The GOAT Cheese - Deployment Playbook - Name Pronunciation Tool

The following sections and commands should be executed in the order listed below.

Create GCP Project

```
PROJECT_ID="Hackathon 2022"
gcloud services enable container.googleapis.com --project
${PROJECT_ID}
gcloud services enable monitoring.googleapis.com \
  cloudtrace.googleapis.com \
  clouddebugger.googleapis.com \
  cloudprofiler.googleapis.com \
  --project ${PROJECT_ID}
```

Clone Git Repository

```
git clone https://github.com/GoatCheese2022/Goat_Cheese_UI
cd Goat_Cheese_UI
git clone https://github.com/GoatCheese2022/namepronunciation
cd namepronunciation
```

Create PostgreSQL Database Environment

1. Create database

```
gcloud sql database create postgres --instance=postgres
--charset=default --collation=en_US.UTF8
```

2. Create required schema and objects

Java services will use this DB endpoint

Setup Kubernetes Cluster

1. Create GKE Cluster in autopilot mode

```
REGION=us-central1
gcloud container clusters create-auto namepronunciation \
  --project=${PROJECT_ID} --region=${REGION}
```

2. Deploy the app to the cluster.

```
kubectl apply -f ./release/kubernetes-manifests.yaml
```

3. Wait for the Pods to be ready.

```
kubectl get pods
```

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Service checks

Access the web frontend in a browser using the frontend's `EXTERNAL_IP`.

```
kubectl get service frontend-external | awk '{print $4}'
```

Monitoring

Monitor Cluster, Pod etc. health on GKE or Cloud Health Dashboard